

PELICAN BAY SERVICES DIVISION

Municipal Service Taxing and Benefit Unit

NOTICE OF PUBLIC MEETING

JULY 6, 2022

THE **CLAM BAY COMMITTEE** OF THE PELICAN BAY SERVICES DIVISION WILL MEET AT **1:30 PM** ON **WEDNESDAY, JULY 6** AT THE SUNTRUST BANK BUILDING, 801 LAUREL OAK DRIVE, SUITE 102, NAPLES, FLORIDA 34108.

AGENDA

1. Roll call
2. Agenda approval
3. Approval of 03/23/2022 meeting minutes
4. Audience comments
5. Clam Pass
 - a. Update on dredging, impact of sand on turtles, timing, expanded template options
 - b. 2022 mean tide ratios
 - c. Date for 2021 Physical and Tidal Monitoring Report from Dr. Dabees
 - d. Communicating with Seagate and Coast Guard
6. Clam Bay
 - a. Preapplication meeting with Army Corps of Engineers and FDEP
 - b. Update on County's exotic removal and dune restoration program. PBSB notified CZM of its optional participation; timing, pricing, and PBSB budget TBD
 - c. Canoe trail marker repairs done by CZM will be validated by Earth Tech
 - d. Boater safety signage to be done by CZM and submitted for BCC approval
 - e. Are oysters viable in Clam Bay? Review with Earth Tech
 - f. Reclaimed water usage and impact on phosphorus levels
7. Water Quality
 - a. 2022 Clam Bay water quality report due in March 23
8. Adjournment

Attached schedule of Clam Pass/Clam Bay Reports

ANY PERSON WISHING TO SPEAK ON AN AGENDA ITEM WILL RECEIVE UP TO THREE (3) MINUTES PER ITEM TO ADDRESS THE BOARD. THE BOARD WILL SOLICIT PUBLIC COMMENTS ON SUBJECTS NOT ON THIS AGENDA AND ANY PERSON WISHING TO SPEAK WILL RECEIVE UP TO THREE (3) MINUTES. THE BOARD ENCOURAGES YOU TO SUBMIT YOUR COMMENTS IN WRITING IN ADVANCE OF THE MEETING. ANY PERSON WHO DECIDES TO APPEAL A DECISION OF THIS BOARD WILL NEED A RECORD OF THE PROCEEDING PERTAINING THERETO, AND THEREFORE MAY NEED TO ENSURE THAT A VERBATIM RECORD IS MADE, WHICH INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED. IF YOU ARE A PERSON WITH A DISABILITY WHO NEEDS AN ACCOMMODATION IN ORDER TO PARTICIPATE IN THIS MEETING YOU ARE ENTITLED TO THE PROVISION OF CERTAIN ASSISTANCE.

**PELICAN BAY SERVICES DIVISION
CLAM BAY COMMITTEE MEETING
MARCH 23, 2022**

The Clam Bay Committee of the Pelican Bay Services Division met on Wednesday, March 23 at 1:00 p.m. at the PBSB Office in the SunTrust Bank Building, 801 Laurel Oak Drive, Suite 102, Naples, Florida 34108. In attendance were:

Clam Bay Committee

Susan O'Brien, Chairman
Denise McLaughlin

Michael Rodburg
Rick Swider

Pelican Bay Services Division Staff

Neil Dorrill, Administrator
Chad Coleman, Operations Manager
Darren Duprey, Assoc. Project Manager

Karin Herrmann, Ops. Analyst (*absent*)
Lisa Jacob, Project Manager
William Mumm, Sr. Field Supervisor
Barbara Shea, Admin. Assistant

Also Present

Jennifer Brunty, Stantec Consulting (*by telephone*)
Jack Cullen, PBSB Board

Mohamed Dabees, Humiston & Moore
Jeremy Sterk, Earth Tech

APPROVED AGENDA (AS AMENDED)

1. Roll call
2. Agenda approval
3. Approval of 01/05/2022 meeting minutes
4. Audience comments
5. Water Quality
 - a. 2021 Clam Bay water quality report
 - b. Recommendations in report
6. Clam Pass
 - a. Update on dredging
 - b. 2021 and 2022 mean tide ratios
 - c. Date for 2021 Physical and Tidal Monitoring Report
 - d. Mitigating northward movement of Clam Pass
7. Clam Bay
 - a. Preapplication meeting with South Florida Water Management District
 - b. Update on County's exotic removal and dune restoration program, including date for PBSB to notify CZM of its participation
 - c. Osprey nest platform
 - d. Canoe trail marker repairs
 - e. Boater safety signage
8. Beach renourishment update (add-on)
9. Adjournment

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ROLL CALL

Mr. Swider was absent at the start of the meeting and a quorum was established. Mr. Swider joined the meeting at 1:44 p.m.

AGENDA APPROVAL

Mr. Rodburg motioned, Ms. McLaughlin seconded to approve the agenda as amended with the addition of agenda item #8. The motion carried unanimously.

APPROVAL OF 01/05/2022 MEETING MINUTES

Ms. McLaughlin motioned, Mr. Rodburg seconded to approve the 01/05/2022 meeting minutes as presented. The motion carried unanimously.

AUDIENCE COMMENTS

None

WATER QUALITY

2021 CLAM BAY WATER QUALITY REPORT

Dr. Jennifer Brunty, Associate, Senior Environmental Scientist with Stantec, participated by telephone, and provided a brief overview of her draft 2021 Clam Bay Water Quality Report. She highlighted, (1) copper and total nitrogen results look good, (2) there was a 32% exceedance rate for total phosphorus over the year, and (3) the long time it takes to get phosphorus out of the sediment. Dr. Brunty identified some minor corrections to her draft report and will provide an updated final report.

Ms. O'Brien complimented Dr. Brunty on a very well-done report. She noted that overall, the report results had good news except for total phosphorus. Ms. O'Brien provided TP exceedances data from 2018 to the present, which showed declining percentages, indicating that we are heading in the right direction. She also pointed out that for the fourth consecutive year we are in compliance for copper, through both community and staff efforts.

RECOMMENDATIONS IN REPORT

Ms. O'Brien commented that Dr. Brunty's Water Quality Report included the following recommendations.

- Samples should be taken from the middle of the water column (slightly deeper). Ms. Jacob will follow up with the County Lab.
- Hardness data should be provided for all of the berm samples, so that copper data collected can be appropriately evaluated. Ms. Jacob will follow up with the County Lab.
- It is recommended that we verify that the calculations for conductivity in 2020 were for "conductivity" rather than "conductance." Ms. Jacob will follow up with the County Lab.
- In order to lower the nutrient level in Clam Bay, leaves need to be kept out of storm drains. Mr. Coleman commented that staff removes leaves from work sites wherever possible.

CLAM PASS

UPDATE ON DREDGING

Dr. Mohamed Dabees, Coastal Engineer with Humiston & Moore, provided an update on the Clam Pass dredging project. He commented that the project started at the end of February and is

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expected to be completed by April 15, prior to the start of turtle nesting season. Dr. Dabees noted that the Pass is closed and the contractor is working in Section "C." He noted that the contractor's equipment failure resulted in a work delay of almost a week. Dr. Dabees commented that seagrass is carefully monitored and that the construction plans accommodated seagrass areas.

Mr. Dorrill commented that the PBF has decided to keep the South Beach facility open throughout the project. He also noted that we will allow the contractor to work into the early evening.

Ms. Charlotte Culgin, a Seagate resident, expressed concerns on the odor coming from the canal behind her home, resulting from the closure of the Pass. She questioned whether the dredging project could have been completed without closing off the Pass and requested better communication with Seagate residents on future dredging projects. Dr. Dabees commented that the construction work is an interruption to the system, but without this work, the system could not maintain itself on its own. He noted that we always try to minimize the disruption, but unfortunately the contractor's equipment failure during this year's work added almost a week to the project. Ms. O'Brien commented that in the future we will try to limit the amount of time of the project as much as possible. Mr. Dorrill commented that we will add Ms. Culgin to our list of entities to contact prior to future dredging projects.

Ms. Jennifer Weidenbruch, a Seagate resident, questioned why there is not a more permanent solution (instead of periodic dredging). Dr. Dabees commented that Clam Bay is a very unique ecosystem, which borders on dense development. He noted that the Clam Bay Management Plan was designed to "replicate nature" and suggested that Ms. Weidenbruch reviews this plan. Dr. Dabees commented that he closely monitors monthly tide ratios and that Mr. Sterk (Earth Tech) monitors environmental and ecological elements of Clam Bay. Ms. McLaughlin commented that the mangroves will provide protection to the PB community in the face of sea level rise. Ms. O'Brien commented that our goal is for a healthy estuary.

2021 AND 2022 MEAN TIDE RATIOS

Ms. O'Brien commented on the fluctuations in the monthly tidal ratios in 2021 and 2022.

DATE FOR 2021 PHYSICAL AND TIDAL MONITORING REPORT

Dr. Dabees commented that his 2021 Physical and Tidal Monitoring and 2022 Post-Construction Report will be issued by June 1. Ms. O'Brien commented that the Clam Bay Management Plan requires a report at least annually, and therefore we are out of compliance (the last report was issued in the first quarter of 2021). Dr. Dabees disagreed.

MITIGATING NORTHWARD MOVEMENT OF CLAM PASS

Ms. O'Brien commented on the general northward movement of the mouth of Clam Pass, and asked whether any strategies might mitigate this movement. Dr. Dabees commented that the northward movement is the natural evolution and also may be a result of sand renourishment at Clam Pass Park. Ms. O'Brien commented that the County's most recent renourishment project contributed to sand accumulation in Clam Pass. Dr. Dabees commented that he has communicated our concerns on this issue to the County's Coastal Zone Management Dept. and he will coordinate/consult with them on future renourishment projects. Mr. Dorrill commented that prevailing winds and storms have an effect on Clam Pass. The system is event driven.

CLAM BAY

PREAMPLICATION MEETING WITH SOUTH FLORIDA WATER MGT. DISTRICT

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Ms. O'Brien commented that we are looking to meet with the South Florida Water Mgt. District to discuss construction of a few additional hand-dug channels in a few areas of stressed mangroves. Mr. Jeremy Sterk, Environmental Consultant with Earth Tech, commented that he will schedule this meeting. He commented that he is currently in the process of reviewing our mangrove forest to determine which hand-dug areas will be included in his 2022 maintenance project and during this review, he will determine which areas would benefit from additional hand-dug channels.

UPDATE ON COUNTY'S EXOTIC REMOVAL & DUNE RESTORATION PROJECT

Ms. Jacob reported that the County is working on obtaining an extension for their exotic removal grant. They do have preliminary plans for a project. Ms. Jacob commented that Pelican Bay would be added as an "add-alternate" to a future County exotic removal contract.

OSPREY NEST PLATFORM

Mr. Sterk reported that he is working with TSI (our Clam Pass dredging contractor), who has agreed to use their equipment to install the osprey nest platform sometime before the dredging project is completed.

CANOE TRAIL MARKER REPAIRS

Ms. Jacob reported that the County's Coastal Zone Management (CZM) Dept. expects to work on the canoe trail marker repairs after the County dredging projects are completed. Mr. Sterk reported that the CZM Dept. has offered to replace all of our canoe trail markers, where necessary.

BOATER SAFETY SIGNAGE

Mr. Dorrill commented that he will contact the Chair of the County Coastal Advisory Committee to obtain an update on the boater safety signage.

BEACH RENOURISHMENT UPDATE (ADD-ON)

Mr. Dorrill commented that he will follow up and meet with the Contessa resident who spoke at the March PBSB Board meeting. He noted that the Contessa beach area was not critically eroded when the County survey was completed. Mr. Coleman commented that he has provided additional information on the beach renourishment project to this resident, who has not responded back to him.

OTHER COMMENTS

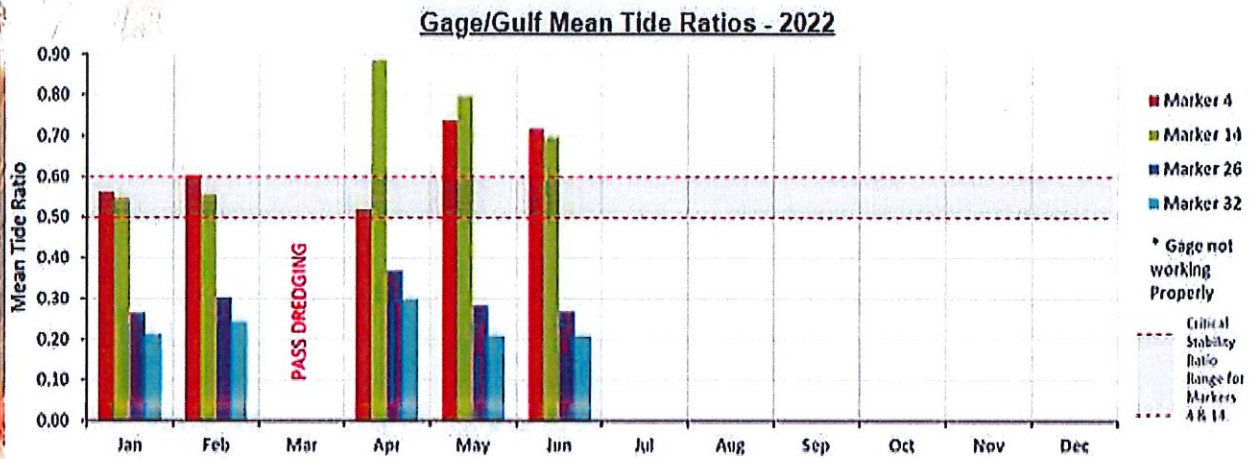
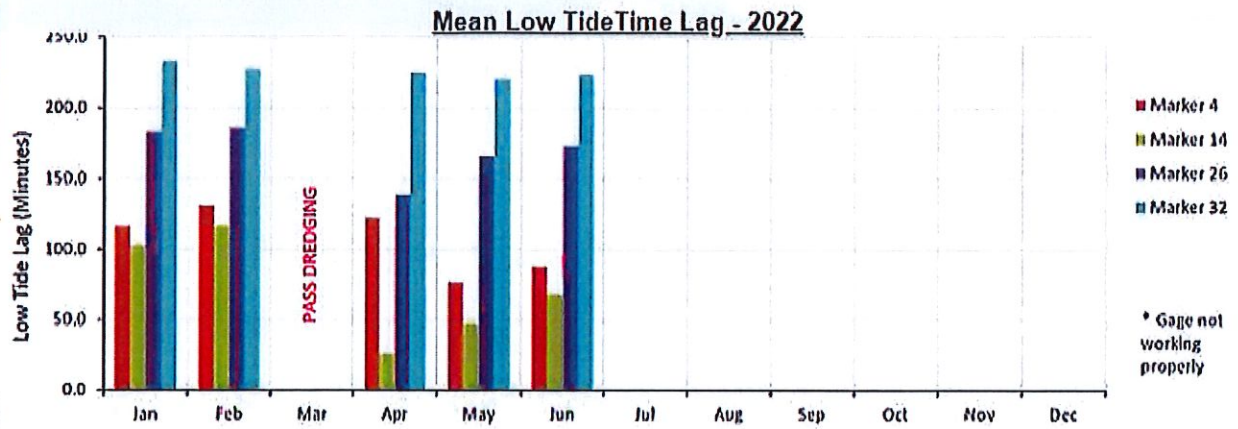
Mr. Rick Lillie asked what entity is responsible to remove trash along PB boardwalks and the berm. Mr. Dorrill responded that the PBF owns this property and typically picks up the trash in these areas. Mr. Coleman commented that the PBSB may assist the PBF.

ADJOURNMENT

The meeting was adjourned at 2:15 p.m.

Susan O'Brien, Chairman

Minutes approved [] as presented OR [] as amended ON [] date



Clam Pass/Bay Reports as of July 2022

| Deliverable | Responsibility | Frequency reviewed as needed | Most recent | Follow Up Actions | Good News | Concerns |
|--|---|--|-------------|---|---|---|
| 2014 Clam Bay NRPA Management Plan | Clam Bay Committee/BCC | | 2019 | | | |
| Clam Bay Monitoring and Management Report | Earth Tech Environmental | Annual | | Dec-21 Mangrove report identifying need for hand-dug channels, wildlife reported. Invasives. Seagrass. Water levels, recreational facilities, signs. | C2M replaced 20 canoe trail marker signs and reflective tape | Earth Tech will field inspect to determine what signs still need replacement. Permit from USACOE and FDEP needed to dig new hand-dug channels |
| Clam Bay Water Quality Analysis | Rotating list of environmental consultants to be selected by procurement. Consultant | Bi- Annual; Clam Bay and berm data collected monthly; data provided quarterly. Posted to FDEP. | | Mar-22 Education opportunities related to storm drains, fertilizer, keeping grass clippings out of storm drains and reducing copper. Specific conductivity should show less problems. | TN and copper concentration in salt water; educational opportunities are handled by Collier County Pollution Control. | Total Phosphorus. Could we reduce our reclaimed water consumption? Not likely to be reduced. Per L&S Committee, staff will be replacing problem plants with turf, which requires more irrigation. |
| Clam Pass Physical and Tidal Monitoring Report | Humiston & Moore; Park Coastal Surveying performs topographic and bathymetric surveys | 2020 Annual | Mar-21 | Report after dredging analysis is completed. NRPA Plan requires annual report. Surveyed late May 22. | | |
| Aerial photography of Clam Pass/Bay | Humiston & Moore | Monthly | | | | |
| Marine Turtles | Collier County Parks & Rec reports number of turtle nests; apparent hatchlings, false crawls; obstacles such as steep beach | Weekly during nesting season April 15-Oct 31; annual report for permit | | | | |
| 1998 Clam Bay Restoration and Mgt Plan | permit expired | | | original 1998 | | |